

WHAT IS CLAIMED IS:

1. A screwdriver comprising:

a handle having a polygonal hole defined in a first end thereof for allowing an operate shaft extending into the handle;

5 a locking device mounted in the handle for selective holding the operate shaft in place, the locking device including a stopper secured in the handle and having a hole defined therein and extending therethrough, the hole co-axially corresponding to the polygonal hole in the handle, the hole in the stopper including a tapered section facing

10 the first end of the handle and having a diameter gradually enlarged relative to the first end of the handle, a slider extending through the stopper and partially received in the hole in the stopper, the slider being movable relative to the stopper, the slider having a polygonal hole defined therein and extending therethrough for allowing the operate

15 shaft extending through the slider, multiple steel balls buried in the slider and radially extending through the slider, each steel ball selectively abutting an inner periphery of the tapered section of the hole in the stopper and the outer periphery of the operate shaft to selectively hold the operate shaft in place, a resilient member mounted

20 around the slider after extending through the stopper for providing a restitution force to make the multiple steel balls engaged to the operate shaft; and

a controlling device is mounted to the handle and

corresponding to the locking device for forward moving the slider and making the multiple steel balls disengaged from the operate shaft.

2. The screwdriver as claimed in claim 1, wherein the handle comprises a sleeve longitudinally inserted into the first end of the
5 handle, the sleeve having a polygonal hole defined therein and extending therethrough, the polygonal hole in the sleeve aligning with the polygonal hole in the slider, a support received in the receiving space and an end piece mounted to a second end of the handle for closing the receiving and holding the support in place, the support
10 having a through hole defined therein and aligning with the polygonal hole in the slider, multiple fins laterally extending from the support and abutting an inner periphery of the receiving space to divide the receiving the receiving space into multiple chamber for receiving tips with different standards, the locking device is mounted between the
15 sleeve and the support.

3. The screwdriver as claimed in claim 1, wherein the resilient member has a first end abutting the stopper and a second end secured on the slider.

4. The screwdriver as claimed in claim 1, wherein the locking
20 device comprises a holder mounted in the handle to hold the stopper and the slider in place, the holder having an opening defined therein and extending therethrough for allowing the operate shaft extending through the holder.

5. The screwdriver as claimed in claim 4, wherein the slider comprises a protrusion extending from one end of the slider opposite to the stopper and a tapered face formed on the protrusion and facing the stopper, and the controlling device comprises two buttons movably
5 received in the first end of the handle, the two buttons radially moved relative to the handle and diametrically corresponding to each other, two pushers respectively connected to a corresponding one of the two buttons and received in the first end of the handle, each pusher having a inclined side facing and relative to the tapered face of the protrusion
10 for forward pushing the slider, two springs mounted between the two pushers for providing a restitution force to the two pushers when the buttons is inwardly pressed.

6. The screwdriver as claimed in claim 4, wherein the controlling device comprises a button mounted in the first end of the
15 handle and longitudinally moved relative to the handle, the button having two pawls respectively extending from two opposite ends of the button, the two pawls mounted to the slider and engaged to the protrusion of the slider for forward driving the slider.

7. The screwdriver as claimed in claim 4, wherein the locking
20 device comprises an actuator with two opposite sides and two washers respectively abutting the two opposite sides of the actuator, the slider extending through the two washers and the actuator to hold the two washers and the actuator in place in the first end of the handle, the

actuator including multiple indentations defined in the two opposite sides thereof and each indentation having an inclined side formed in one side of each of the indentation, each of the washer having multiple bosses extending therefrom and each received in a corresponding one of the indentations in the two opposite side of the actuator, each boss having an inclined side formed thereon and abutting the inclined side of the corresponding one of the multiple indentations in the actuator, the handle including an opening defined therein and corresponding to the locking device, the controlling device including a button circuitously movably mounted in the opening and connected to the actuator to prevent the button from be detached from the handle and drive the actuator.

8. The screwdriver as claimed in claim 7, wherein the controlling device comprises two springs mounted between the button and an inner periphery on the opening in the handle to provide a restitution force to the button after being moved.

9. The screwdriver comprising:

a handle including a receiving space longitudinally defined therein and extending therethrough;

an insertion longitudinally mounted to a first end of the handle and an end piece longitudinally mounted to a second end of the handle to close the receiving space in the handle, the insertion including a through hole centrally longitudinally defined therein and

communicating with the receiving space in the handle, the through hole in the insertion having a tapered section defined in a first end of the through hole and an enlarged section defined in a second end of the through hole to formed a shoulder on a bottom of the enlarged section;

5 a slider partially inserted in the through hole in the insertion, the slider including a first end having a protrusion radially extending therefrom and a second end extending to the enlarged section of the through hole in the insertion;

 an operate shaft extending through the slider into the
10 receiving space in the handle;

 multiple steel balls buried in the slider, each steel ball extending through the slider and selectively engaged to the tapered section of the through hole in the insertion and the outer periphery of the operate shaft; and

15 a resilient member mounted around the second end of the slider and the C-shaped ring secured on the second end of the slider to hold the resilient member in place and prevent the slider from detaching from the insertion;

 whereby the multiple steel balls are disengaged from the
20 operate shaft and the resilient member is compressed when the user forward push the protrusion such that the operate shaft is in a free condition and the user can adjust the length of the operate shaft relative to the handle, and the protrusion is released, the slider is moved to the

original position due to the restitution force of the resilient member and the multiple steel balls engaged to the operate shaft again due to the tapered section of the through hole in the insertion.